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Timken Part Number 7209WN, Fafnir® Single Row Angular Contact Ball Bearings (7200, 7300, 7400)

Timken® angular contact ball bearings are designed for combination radial and axial loading. Single-row bearings have high thrust capacity in one direction. Some single-row bearings are specifically designed for duplex mounting in sets for maximum performance.



Dimensions | Basic Load Ratings | Factors | Specifications | Abutment and Fillet Dimensions

Dimensions

d - Bore	45.000 mm 1.7717 in
D - Outer Diameter	85.000 mm 3.3465 in
Bearing Width	19.000 mm 0.7480 in
Contact Angle	40 °
do - Ball Diameter	12.70000 mm 0.50000 in

Basic Load Ratings

C0 - Static Radial Rating	25900 N 5850 lbf
Ce - Dynamic Radial Rating[1]	40500 N 9150 lbf

Factors

Limiting Speed (Grease)	4625 rpm
Limiting Speed (Oil)	6165 rpm

Specifications

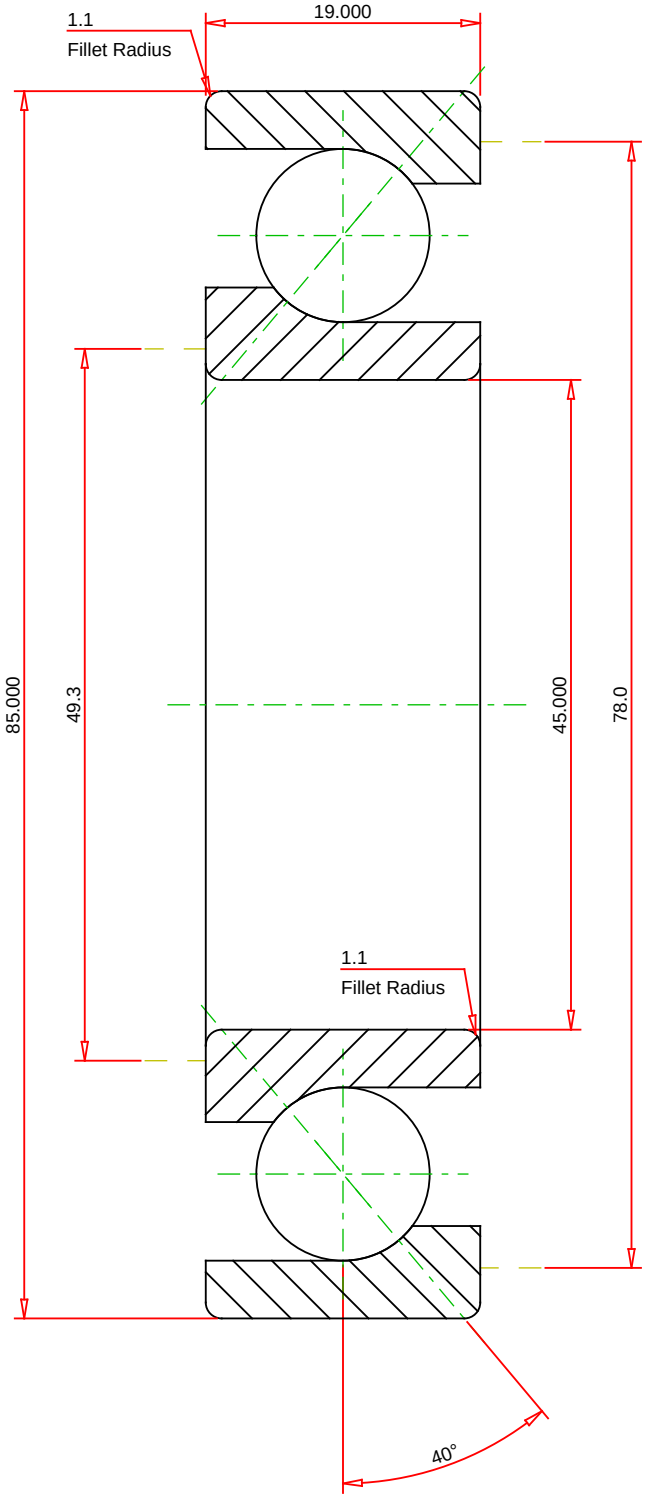
Ball Type	Steel
Cage Type	Ball Piloted, Pressed Brass Cage
Bearing Weight	0.435 Kg 0.96 lb
Design Units	METRIC

Abutment and Fillet Dimensions

R - Inner Ring "To Clear" Radius[2]	1.100 mm 0.043 in
r - Outer Ring "To Clear" Radius[3]	1.100 mm 0.043 in
da - Inner Ring Backing Diameter	49.300 mm 1.940 in
Da - Outer Ring Backing Diameter	78.000 mm 3.070 in

[1] Based on 10^6 revolutions of calculated fatigue life.

[2] Maximum housing fillet radius that bearing corners will clear.
[3] Maximum shaft fillet radius that bearing corners will clear.



METRIC UNITS

Number of Balls Per Row	14	
Bearing Weight	0.435	kg

TIMKEN®

THE TIMKEN COMPANY
NORTH CANTON, OHIO USA

7209WN

Fafnir® Single Row Angular Contact Ball Bearings
(7200, 7300, 7400)

Dynamic Radial Rating	40500	N
Static Radial Rating	25900	N

Every reasonable effort has been made to ensure the accuracy of the information contained in this writing, but no liability is accepted for errors, omissions or for any other reason.

FOR DISCUSSION ONLY